

O-RING INSERTION ASSEMBLY GRIPPER

AGI is introducing an O-Ring insertion assembly equipment, along with a complete range of automation products that include, parallel grippers, rotary actuators, thrusters, linear actuators, mini slides, tool changers, overload devices.

The O-Ring gripper made for inserting, picking and placing O-Rings and Oring placement applications. The twelve-jaw gripper has independent spreading and ejector movements. The unit has two independent pistons, the six spreading jaws are double acting and the six ejector jaws are single acting. When air pressure is applied to the first piston, six parallel jaws spread the o-ring. The O-ring is stretched evenly in a hexagonal shape; this allows the O-Ring to be expanded with considerably less deformation. The stroke can be precisely adjusted using the set-screw so there isn't any over expansion. After the o-ring is expanded and over your part, air pressure is applied to the second piston. This causes the ejector jaws to push forward and press the O-Ring from the spreading jaws onto the part being assembled. The O-Ring gripper can be tooled to accommodate all types of rings, the smallest would be the smallest you can make your tooling jaws to fit the inside diameter and the largest is approximately three inch diameter depending on the cross section. End of stroke sensing is available for both the spreading and ejecting jaws. The size of the units is 2.5 inches diameter by 2.7 inches tall. Spreading Jaws have 62 lbs force @80 psi and Stripping Jaws have 80 lbs @ 80 psi. Two and 3D cad available on our web site.

- * Rapid Cycle Times. Semi & Fully Automatic
- * Incorporate in Full Assembly Systems or Stand Alone Work Stations
- * Capable Of Inserting from .100" – 3" I.D. Size O-Rings.
- * Vertical Or Horizontal Placement. No Lubrication of O-ring Necessary

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